

19980205.ba v01\_n909.bam.980205 v01\_n910.bam.980205

>From ???@??? Fri Feb 06 09:10:22 1998  
Message-Id: <199802050618.AAA07279@sco.theporch.com>  
Date: Thu, 5 Feb 1998 00:18:01 CST  
Subject: BOATANCHORS digest 1909

## BOATANCHORS Digest 1909

Topics covered in this issue include:

- 1) FS/T: SX-100 S-meter  
by Doug Hall <dhall@jps.com>
- 2) WTD: 100W Pwr Osc.Ckt  
by Mike <ac5p@ionet.net>
- 3) Question: HRO 60 Drift  
by greg anders <kg6yv@mindspring.com>
- 4) 304TL socket...  
by Ken Gordon <keng@uidaho.edu>
- 5) WTB: "White" boxes  
by Sandy W5TVW <ebjr@worldnet.att.net>
- 6) Handles for 51J4  
by Morris Odell <morriso@vifp.monash.edu.au>
- 7) [Fwd: TS830S mod for s.g. mod AM?]  
by Hal Waite <halwaite@sprintmail.com>
- 8) HRO 60 Needs  
by bc375 <bc375@tiac.net>
- 9) Using scope sawtooth for freq sweep  
by "N. West" <ninaw@u.washington.edu>
- 10) Heath BR-2 receiver question  
by Jim Coe W5JI <jcoe@brightok.net>
- 11) Found stuff  
by Edward Zeranski <ejz@nosc.mil>
- 12) Who was looking for BC-348?  
by Jim Coe W5JI <jcoe@brightok.net>
- 13) Re: Change in Size of ARRL Handbooks  
by "larry W6WUH" <rau@wco.com>
- 14) Re: Why input vs output power  
by "larry W6WUH" <rau@wco.com>
- 15) FS: Original SX-28 cabinet  
by "Chuck O'Neal" <coneal@ultranet.com>
- 16) BC-312/342 nameplates  
by BEN NOCK <G4BXD@compuserve.com>
- 17) Supreme TT #85, 35  
by jackiv@juno.com (John M Iverson)
- 18) Re: Odgen BA Haunts -  
by Dexter Francis <cwest@xmission.com>
- 19) 6AK5 BEHAVIOR

by JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)

20) Re: Handles for 51J4  
by Ralph Parker <rparker@istar.ca>

21) Vacuum Tube Enthusiasts Weekend  
by Jeffrey Herman <jeffreyh@hawaii.edu>

22) Re: Handles for 51J4  
by Al Klase <skywaves@bw.webex.net>

23) Parts Needed  
by Sandra L Knepper <slkst29+@pitt.edu>

24) Re: HQ-170....Decision Time  
by DCrespy@aol.com

25) Re: [R-390] Re: R-390A Drawings Available from Govt  
by WA0HQQ <tirevold@atl.mindspring.com>

26) Radio History on the Web  
by "Robert Nickels" <ranickel@mwci.net>

27) Re: Handles for 51J4  
by Dick Dillman <ddillman@igc.apc.org>

28) Re reflex and WS-38  
by Andre Guibert <aguibert@sympatico.ca>

29) Re: Relay Chchchchchatering  
by "Arden Allen" <aallen@sirius.com>

30) Re: Radio History on the Web  
by Dick Dillman <ddillman@igc.apc.org>

31) Handles for 51J4  
by Morris Odell <morriso@vifp.monash.edu.au>

32) Re: R-649 Progress  
by Ron Hershey <rhershey@europa.com>

---

Date: Tue, 3 Feb 1998 11:30:22 -0500  
From: Doug Hall <dhall@jps.com>  
To: boatanchors@theporch.com  
Subject: FS/T: SX-100 S-meter  
Message-ID: <199802031630.LAA00152@Netcube.ntwrks.com>

Hi folks,

I have an S-meter for a Hallicrafters SX-100. It's in good condition and it works. It has a small crack in top corner of the plastic cover, but other than that it's fine.

I'll swap this for a few NOS 807s, or a few 80 or 40m xtals in the CW band (BA freqs or thereabout) or sell it for \$20 shipped. Prefer swaps. If you don't have any 807s or xtals but have something else interesting to swap, drop me a note.

73,

Doug, KF4KL

-----  
Date: Tue, 3 Feb 1998 11:10:45 -0600 (CST)  
From: Mike <ac5p@ionet.net>  
To: boatanchors@theporch.com  
Subject: WTD: 100W Pwr Osc.Ckt  
Message-ID: <199802031710.LAA12315@mail.ionet.net>

Does anyone have a proven circuit for a high power self-excited single tube oscillator? Perhaps an ECO circuit using an 813 or similar tetrode?

Mike ac5p  
PO Box 33  
Bartlesville,OK 74005

-----  
Date: Tue, 03 Feb 1998 09:15:35 -0800  
From: greg anders <kg6yv@mindspring.com>  
To: boatanchors@theporch.com  
Subject: Question: HR0 60 Drift  
Message-ID: <3.0.1.32.19980203091535.00721868@pop.mindspring.com>

My HR0 60 works great except for a very noticeable frequency drift on the higher frequencies. The drift appears when using the "A" coil (14-30mc) and seems to be only present above 18mc. I can leave the radio on WWV@15mhz indefinitely with little or no change in frequency. However, above 18mhz the drift appears and gets worse the higher in frequency you tune.

I doubt that this is a "design feature" of the HR060 so I thought I would ask if anyone has seen similar symptoms and look for suggestions on where to start looking for the source of the problem??? OH, I have already cleaned all contacts on the coil box and replaced the 6C4 with no change....

Thanks,

Greg KG6YV

-----  
Date: Tue, 3 Feb 1998 10:18:22 -0800 (PST)  
From: Ken Gordon <keng@uidaho.edu>  
To: boatanchors@sco.theporch.com  
Cc: glowbugs@www.atl.org

Subject: 304TL socket...

Message-ID: <Pine.BSF.3.95.980203101356.27779H-100000@piobaire.mines.uidaho.edu>

I need ONE of these. I thought I had two, but can only find one.

I really can't understand why these things should be so hard to find. Several models of Nuclear Magnetic Resonance instruments as used in Chemistry Departments, Physics Departments, and Hospitals used up to 12 ea. 304TLs as shunt regulators, and most of those machines are now no longer being used.

Wonder where they all went?

Anyone got a socket they would part with for a reasonable sum?

Ken W7EKB

-----  
Date: Tue, 3 Feb 1998 18:48:14 +0000  
From: Sandy W5TVW <ebjr@worldnet.att.net>  
To: BASWAPLIST@FOOTHILL.NET, boatanchors@theporch.com, glowbugs@www.atl.org,  
heath@listserv.tempe.gov  
Subject: WTB: "White" boxes  
Message-ID: <19980203184812.AAA2545@LOCALNAME>

Does anyone know of a source of miniature and other size  
"white boxes" for tubes other than Antique Electronic Supplies?

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

\*\*860 Hartley 'ECO' construction "on hold"\*\*\*\*

\*\*\* Looking for a TRC-10 transceiver \*\*\*\*\*

\*\*\* Looking for an RAL receiver \*\*\*\*\*

-----  
Date: Wed, 04 Feb 1998 10:11:38 +1100  
From: Morris Odell <morriso@vifp.monash.edu.au>  
To: r-390@qth.net, boatanchors@sco.theporch.com  
Subject: Handles for 51J4  
Message-ID: <34D7A42A.358F@vifp.monash.edu.au>

Hi all,

Does anyone know whether the R390A handles will fit the R388/51J receiver?

73 de Morris VK3DOC

-----  
Date: Tue, 03 Feb 1998 14:58:27 -0800  
From: Hal Waite <halwaite@sprintmail.com>  
To: Boatanchors <boatanchors@theporch.com>  
Subject: [Fwd: TS830S mod for s.g. mod AM?]  
Message-ID: <34D7A113.3187@sprintmail.com>

From: mwilson@REMOVEflex.net  
Newsgroups: rec.radio.amateur.homebrew,rec.radio.amateur.equipment  
Subject: TS830S mod for s.g. mod AM?  
Date: Tue, 03 Feb 1998 17:31:18 GMT  
Organization: FlexNET Customer  
Reply-To: mwilson@REMOVEflex.net  
X-Newsreader: Forte Free Agent 1.0.82  
NNTP-Posting-Host: hou3-40.flex.net  
Message-ID: <34d75370.0@news.flex.net>  
Path: spool1!news.sprintisp.com!sprintisp!news-peer.gip.net!news.gsl.net!gip.net!newsfeed.internetmci.com!205.218.188.70!news.flex.net!hou3-40.flex.net  
Xref: spool1 rec.radio.amateur.homebrew:18602 rec.radio.amateur.equipment:46585

Hello all.

I am interested in applying screen grid modulation to the TS830S in order to AM the transmitter. I'm only interested in using it on 160m and above 29 MHz on 10m.

My first test was to take the output from the screen grid modulator tube in a TR-4C and connect it to the wire which feeds reduced screen voltage to the finals in "TUNE" mode on the Kenwood. This wire I disconnected from the "TUN" terminal on the rectifier board and connected to an audio cable to the TR-4C.

This first test had mixed results. The voltage output from the Drake was +60v at rest and peaked around +220v. This resulted in readings on my average-reading wattmeter of 30w and 60w, respectively, coming out of the Kenwood's transmitter. Of course, I could reduce the "carrier" control to get values less than this. But the audio from the Drake's mike cannot be heard on the signal. The level of the carrier comes up, but no audio could be heard on it.

This led me to the suspicion that there was too much parallel capacitance and series inductance in the circuit, so the screen grids were only being modulated at sub-audio frequencies. So I replaced the .01 screen bypass caps with 100 pF, and moved the cap and inductor at point PD2 on the rectifier board to a point that is in the circuit for CW/USB/LSB but switched out at the "TUNE" position.

The result of this second test is that a little audio can be heard on the carrier. But still a very low level and only low bassy tones of voice. This leads me to believe I am heading in the right direction.

With the cap and inductor at PD2 out of the circuit, I am running out of components to change. It looks like the next steps are (1) to disconnect the Drake screen modulator from its own final circuits, so it is feeding only the Kenwood, and (2) reduce the inductance of the Kenwood's screen grid inductor. This second one makes me nervous because this change, like the reduction of the screen bypass caps, would be in the circuit full-time, even when I'm running CW or SSB. That means all bands, not just 10m and 160m would have to be checked out completely to make sure no oscillations are going to happen.

If this works, I want to build an external modulator based on the Drake circuitry, sourced from the Kenwood's own supply. Then I will have to be very careful about bypassing screen RF to ground in the modulator circuit.

Have any of you ever done this before? I checked Deja News and came up empty. I would like to hear from others who have done something similar. Please write me at mwilson at flex.net.

Thanks,  
.....Monty N5NVM.

-----  
Date: Tue, 03 Feb 1998 23:19:31 -0500  
From: bc375 <bc375@tiac.net>  
To: Old Tube Radios<boatanchors@theporch.com>  
Subject: HRO 60 Needs  
Message-ID: <3.0.1.32.19980203231931.00778910@tiac.net>

Gentlemen:

Does anybody have a power transformer for an HR060 that they might like to sell? Also, what extra plug in coils might be available for purchase? Please reply if you have any of these pieces for sale or trade.

A friend is looking for a working SRR-13. Does anybody have one of those to sell? If so, please advise.

Thank You. Charlie KA1GON BC375@TIAC.NET

-----  
Date: Tue, 3 Feb 1998 16:36:11 -0800 (PST)  
From: "N. West" <ninaw@u.washington.edu>  
To: boatanchors@sco.theporch.com  
Subject: Using scope sawtooth for freq sweep  
Message-ID: <Pine.A41.3.96a.980203161121.16464A-100000@dante33.u.washington.edu>

I have a Hickock 288 signal generator that can provide a swept frequency signal for IF alignment, etc. It uses a 60 cycle signal provided to the grid of a reactance modulator and also has a jack for external modulation. I was able to hookup the HP 200CD to the ext mod jack and get my sweep rate down to 5 cycles/sec, but didn't have any luck with patching in the sawtooth output of my Tektronix 555 scope. I guess that the negative halves of the HP 200CD signal can get me sweep, but the all positive sawtooth won't. How can I easily convert my positive sawtooth into a negative sawtooth? I am dropping the sawtooth output (150 volts) through a 250K resistor to a level comparable to the internal sweep voltage (about 20v p-p). I am thinking that a couple of 9 volt batteries in series with the resistor might give me the proper bias. This was all brought up by the discussion earlier on Boatanchors about using slow (4 cps) sweep rates to align crystal filters, etc. Can anyone share their opinion/experience/help in using a scope sawtooth output for modulating a sweep generator?

Fred Powell  
c/o  
ninaw@u.washington.edu

-----  
Date: Tue, 3 Feb 1998 19:40:41 -0600 (CST)  
From: Jim Coe W5JI <jcoeb@brightok.net>  
To: boatanchors@sco.theporch.com  
Subject: Heath BR-2 receiver question

Message-ID: <199802040140.TAA06663@cowboy.brightok.net>

I have an unidentified, cabinetless receiver which reminds me of the Heath broadcast receiver and looks like it was built from a kit.

The dial face has been replaced with a homemade version so that is no help. The one thing that may help ID it as a Heath, or not a Heath, is the chassis. The left end of the chassis (from the front view) has a triangular section cut out. Does anyone on the list know if the Heath receiver had this type of chassis configuration? I know the AR series did not, but I don't have a catalog which shows a bare chassis view of the BR series.

Thanks for any help es 73's.....Jim

```
-----  
Jim Coe W5JI           Hollowstaters should never tell their  
Oak Crest(Antenna)Farm paramours that the glow in their  
Davis, OK, USA        eyes reminds them of a favorite radio!!  
-----
```

-----  
Date: Tue, 03 Feb 1998 18:33:09 -0800  
From: Edward Zeranski <ejz@nosc.mil>  
To: boatanchors@theporch.com  
Subject: Found stuff  
Message-ID: <3.0.1.32.19980203183309.0071d438@marlin.nosc.mil>

Have been on the road a while for work, and will be, but did manage a BA visit with Mike Hanz in then a quick trip to Grand Junquetion in VA Beach. Grand Junquetion had some HV caps for cheap and a bunch of plugin 150-450vdc multi-section electrolytics. They also have a Gertsch FM3 freq meter which is like a VHF version of an LM or BC-221. The unit is marked \$25 but I'd bet they would take way less. The manual is there too with some factory tech notes. Luckily there were two manuals and I needed one for my Gertsch FM3, the owner threw it in with the caps for free. When I asked why there was such a wierd spread on prices the owner said it was based on what they paid for the lot initially. They still have some new GRC-9 spares boxes for you 'Angry-9' fans.

Ed Zeranski This is a private opinion or statement.  
home email: ezeran@cris.com  
-----



Date: Tue, 3 Feb 1998 20:31:42 -0600 (CST)  
From: Jim Coe W5JI <jco@brightok.net>  
To: baswaplist@foothill.net  
Cc: boatanchors@sco.theporch.com  
Subject: Who was looking for BC-348?  
Message-ID: <199802040231.UAA14469@cowboy.brightok.net>

Someone from the Dallas, TX, area was looking for a BC-348 a few weeks ago and I thought I kept his email, but.....can't find it!

I have a BC-348R which needs a new home and I can deliver in the Dallas area. Also a BC-312....

Thanks for the bandwidth.....Jim

-----  
Jim Coe W5JI                      Hollowstater should never tell their  
Oak Crest(Antenna)Farm           paramours that the glow in their  
Davis, OK, USA                   eyes reminds them of a favorite radio!!  
-----

-----  
Date: Tue, 3 Feb 1998 18:29:39 -0800  
From: "Larry W6WUH" <rau@wco.com>  
To: "Hal Waite" <halwaite@sprintmail.com>  
Cc: "boatanchors" <boatanchors@theporch.com>  
Subject: Re: Change in Size of ARRL Handbooks  
Message-ID: <199802040232.SAA27658@shell.wco.com>

In 1979 ARRL inducted an interim president by secret ballot in the back wash room at the Newington HQ. ... the person chosen.. one Meyerson Q. Appleby Esq. was a man of exceedingly broad beam, but exquisitely short stature.

It was soon noted by the late Doug De Maw ( ARRL's astute Technical Editor) that the secret interim president was squirming uncomfortably at Board Meetings while perched upon the old style small format handbooks.

In what may be Doug's most lasting, if un-noticed, contribution to ham Radio...he tactfully proposed the larger size handbook.

-----  
Date: Tue, 3 Feb 1998 18:14:55 -0800  
From: "Larry W6WUH" <rau@wco.com>  
To: "Jeffrey Herman" <jeffreyh@hawaii.edu>  
Cc: "boatanchors" <boatanchors@theporch.com>  
Subject: Re: Why input vs output power  
Message-ID: <199802040217.SAA22100@shell.wco.com>

this is just a dumb convention....

generally Commercial transmitters are spec'd according to output at the antenna terminals

Legal limitations for Amatuer licenses used to be written in terms of DC INPUT to the PA.

The old standards were 75 watts input novice and 1kw input General./Tech/Conditional

Today ham regulations are written in terms of output... so they comform to the commercial model.

The new standards are ( I think ) 250 watts PEP output novice and 1.5 KW PEP output G/T/C.

With so many yo-yo-s wanting to argue about how or when to measure ( like unmodulated f 'rinstance) the output method made it a bit more rational...( oh oh.. I put my foot in it again).

And that is why it aint legal to run your Kilowatt Desk full-tilt -boogie anymore.

Larry W6WUH

-----  
Date: Wed, 4 Feb 1998 09:26:43 -0500  
From: "Chuck O'Neal" <coneal@ultranet.com>  
To: "'BA SWAPLIST POST'" <baswaplist@foothill.net>,  
      "'BOATANCHORS LIST POST'"  
Subject: FS: Original SX-28 cabinet  
Message-ID: <01BD314F.02E3C1A0@d76.b65.cmb.ma.ultra.net>

I have available an original cabinet for an SX-28 or 28-A. It is in fair shape,

but could be cleaned up to very good to excellent. It has the original side trim pieces and the bottom cover. It has no dents or bends at all but does have some surface rust inside and it is dirty. Looks like it sat in a basement for most of its life. 98% of the original grey wrinkle paint is intact. The upper right rear has a scratch on the edge down to bare metal. There is a splash of white paint about 1.5" in dia on the right side...looks like it would come off easily. \$50 plus shipping.

73,  
Chuck...K1KW

-----  
Date: Wed, 4 Feb 1998 13:03:10 -0500  
From: BEN NOCK <G4BXD@compuserve.com>  
To: Multiple recipients of 1 <boatanchors@sco.theporch.com>  
Subject: BC-312/342 nameplates  
Message-ID: <199802041305\_MC2-31E3-1323@compuserve.com>

I have a friend in the USSR who is looking for one of each of the above nameplates. He has 312-D and a 342-N but I guess any =

model name plate would be better than non. =

So if you have a scrap chassis with one on, please let me know or I'll supply a name/address and you can send it directly to him.

cheers, Ben G4BXD

-----  
Author, Historian and Collector  
England, U.K.  
-----

-----  
Date: Wed, 4 Feb 1998 12:36:45 CST  
From: jackiv@juno.com (John M Iverson)  
To: <boatanchors@sco.theporch.com>  
Subject: Supreme TT #85, 35  
Message-ID: <19980204.123658.3278.0.jackiv@juno.com>

In rummaging through some paper I found a setup list for the above, even has a 6D5. date 11-10-36 . why should you have it.. reply direct.  
Jack Iverson K0EWU jackiv@juno.com

-----  
You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Wed, 04 Feb 1998 12:24:44 -0700  
From: Dexter Francis <cwest@xmission.com>  
To: boatanchors@theporch.com  
Subject: Re: Odgen BA Haunts -  
Message-ID: <34D8C06F.7365@xmission.com>

Can't speak for Odgen. (Maybe Wally Gibbons can do that)  
BUT in Salt Lake there is ME and Salt Lake Instrument Repair.

-df

-----  
Need to Buy or Sell Tubes, Parts or BA Gear?  
Visit our Web site at <http://www.xmission.com/~cwest/>  
e-mail to: tubes@usa.net -or- cwest@xmission.com  
P.O. Box 22443, Salt Lake City, Utah 84122

-----  
Date: Wed, 4 Feb 1998 14:23:03 -0500 (EST)  
From: JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)  
To: boatanchors@theporch.com  
Subject: 6AK5 BEHAVIOR  
Message-ID: <9802041423.aa22823@pcusa01.ecunet.org>

I recall an OT telling me that 6AK5's do a curious thing when they get weak: they easily cross-modulate.

We happened to be discussing BA VHF FM receivers which often used 6AK5's in the RF stage. Sometimes had 2 RF stages using 'em. 'Course there was usually no AGC applied so they were running wide open.

Don't know how applicable this is to HF use, in a linear ct. & with AGC applied.

-John Sehring (written on Sat, Jan 31, 1998 at Custer, SD) UCC WB2EQG

-----  
Date: Wed, 04 Feb 1998 11:39:18 -0800  
From: Ralph Parker <rparker@istar.ca>  
To: boatanchors@theporch.com  
Subject: Re: Handles for 51J4

Message-ID: <3.0.5.16.19980204113918.2e17f9b6@istar.ca>

Morris, VK3DOC wrote:

>Does anyone know whether the R390A handles will fit the R388/51J  
>receiver?

I just measured mine, and they seem to be the same size.

The R-390A handles have a nut only on the inside for fastening/adjustment, with a collar on the outside.

The R-388 has a nut also on the outside, I presume because there is minimal room on the inside for adjustment.

Or maybe it was just fashion. I haven't removed my panels (yet).

73, Ralph, VE7XF

-----  
Date: Wed, 4 Feb 1998 17:06:49 -1000

From: Jeffrey Herman <jeffreyh@hawaii.edu>

To: boatanchors@theporch.com

Subject: Vacuum Tube Enthusiasts Weekend

Message-ID: <98Feb4.170652hwt.216686(2)@uhunix4.its.Hawaii.Edu>

A vacuum tube enthusiasts weekend is slated for February 7th and 8th in San Francisco, California. Sponsored by Vacuum Tube Valley Magazine, the Northern California Tube Audio and Enthusiasts Group and the California Historical Radio Society, this two day event offers something for every electron tube enthusiast. For more information contact Vacuum Tube Valley Magazine at: (408) 733 6146

or check their website at: [www.vacuumtube.com](http://www.vacuumtube.com)

Jeff KH2PZ

-----  
Date: Wed, 04 Feb 1998 16:22:58 -0500

From: Al Klase <skywaves@bw.webex.net>

To: morriso@vifp.monash.edu.au

Cc: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Handles for 51J4

Message-ID: <34D8DC32.96E3401@bw.webex.net>

Morris Odell wrote:

> Does anyone know whether the R390A handles will fit the R388/51J  
> receiver?

>

I have a 390, 390A, and a J4 right here. The handles appear to be very, very similar. Should be ok.

--

Al Klase - N3FRQ  
skywaves@bw.webex.net  
Flemington, NJ 08822  
Web Page: <http://www.webex.net/~skywaves/home.htm>

-----  
Date: Wed, 4 Feb 1998 17:22:57 -0500 (EST)  
From: Sandra L Knepper <slkst29+@pitt.edu>  
To: boatanchors@theporch.com  
Subject: Parts Needed  
Message-ID: <Pine.GS0.3.96L.980204172037.5963B-100000@unixs1.cis.pitt.edu>

I need the following:

6AU5 tube

Rectifier board from a TS-820 - Kenwood no longer supplies this board.

Thank you.

Dave, W3BJZ  
Publisher of the Collins Journal

-----  
Date: Wed, 4 Feb 1998 19:25:37 EST  
From: DCrespy@aol.com  
To: boatanchors@theporch.com, brianbj@compuserve.com  
Subject: Re: HQ-170....Decision Time  
Message-ID: <2642b633.34d90704@aol.com>

>> Does anyone have a (BFO) transformer, or is this poor thing (HQ-170) doomed to be a parts source? <<

>>I would figure out how to build a BFO transformer before I would cannibalize it.<<

Brian,

You can make one up from an old TV horizontal Oscillator Coil (Purchase Radio

in Ann Arbor has them, Miller # 6183).

Harry

-----  
Date: Wed, 04 Feb 1998 20:10:36 +0000  
From: WAOHQQ <tirevold@atl.mindspring.com>  
To: boatanchors@sco.theporch.com  
Subject: Re: [R-390] Re: R-390A Drawings Available from Govt  
Message-ID: <3.0.5.32.19980204201036.0080cac0@pop.atl.mindspring.com>

OK!

Count me in!

73,

Al

..

-----  
Date: Wed, 4 Feb 1998 19:20:42 -0600  
From: "Robert Nickels" <ranickel@mwci.net>  
To: "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Radio History on the Web  
Message-ID: <00be01bd31d4\$7919be80\$508a3ece@default>

Hi All,

The effort that has been put into sharing radio history via the WWW are truly awesome! I recently discovered a site dedicated to radio's premier inventor - Maj. E. H. Armstrong:

<http://www.erols.com/oldradio>

As you know, Armstrong was responsible for the regenerative, superheterodyne and superregenerative circuits and the complete FM system. What is amazing about this web site is the amount of authentic historical documentation that has been carefully scanned and made available to us all. It is a moving experience to observe Armstrong's notes and correspondence, written and signed in his own handwriting. Turn on the receiver, grab a cup of tea (or cold 807 if you prefer) and take a look at the story of the man who

invented what we sometimes struggle to keep running!

Slightly off topic - but I think it will be of interest to many to know that "radio controlled" clock mechanisms are available for under \$30 from Klockit. They have the traditional "analog display" and are the perfect way to bring that old noisy Hallicrafters SWL world clock into the 20th century! The WWVB receiver is no bigger than a conventional quartz movement...

<http://www.klockit.com/ordnew.cfm?type=radiocontrolled&itemtype2=RadioControlledMovements>

73, Bob W9RAN

-----  
Date: Wed, 4 Feb 1998 18:13:33 -0800 (PST)  
From: Dick Dillman <ddillman@igc.apc.org>  
To: morriso@vifp.monash.edu.au, Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Handles for 51J4  
Message-ID: <2.2.16.19980204181316.45e714ca@pop.igc.org>

At 10:11 AM 2/4/98 +1100, Morris Odell wrote:

>Does anyone know whether the R390A handles will fit the R388/51J  
>receiver?

Since I have both here I took careful and precise measurements with my Stanley model PL8 tape measure. While they're slightly different in shape it looks to me as if they'll fit. Any further input from the experts?

73,

Dick

Dick Dillman  
<ddillman@igc.apc.org>  
WPE2VT W6AWO  
Collector Of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

-----  
Date: Wed, 4 Feb 1998 21:54:26 -0500 (EST)  
From: Andre Guibert <aguibert@sympatico.ca>



To: boatanchors@theporch.com  
Subject: Re reflex and WS-38  
Message-ID: <199802050254.VAA16211@smtp11.bellglobal.com>

>Return-Path: <owner-boatanchors@theporch.com>

>

>As Hugh Miller said earlier the WS-38 used reflex. The If stage  
>used, if I remember right, a ARP-12 at about 300kc, the audio  
>being fed into the bottom of the IF transformer. The detector  
>was a solid state diode like the 1N34.

>

>Philip McCoy dgnova@erols.com

Bonsoir to all  
To quote "Wireless for the Warrior"  
Modulation amp. +IF/AF reflex amp. ARP12

Andre

-----

Date: Wed, 4 Feb 1998 19:00:19 -0800  
From: "Arden Allen" <aallen@sirius.com>  
To: <dxguy@earthlink.net>, "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Re: Relay Chchchchchattering  
Message-ID: <199802050259.SAA17945@mail2.sirius.com>

Don Davis says:

> Relay coils chatter on low applied voltages for the following reason:

>

> When voltage is first applied to the relay coil the armature is away  
> from the core. This is a large air-gap and the inductance of the coil  
> (with the core) is low (relatively speaking, it's actually quite large  
> compared with same coil with no core material). As the armature pulls  
> in to the core, and finally contacts the core, this additional magnetic  
> material/path increases the inductance of the coil.

>

> Since the energy in the circuit immediately before the contact must be  
> equal to the energy immediately after the contact, and since the energy  
> in the coil is  $E = Li^2$ , it follows that if L increases, then i must  
> decrease. When the current decreases, the magnetomotive force decreases  
> rapidly, and the contact pulls away. As it starts to pull away, the  
> inductance again decreases and the current increases yet again. A  
> vicious cycle, I know. This is the familiar relaxation oscillator in a  
> mechanical form, repeat with inertia. Many early electric control  
> apparatus (apparati?) depend upon this sort of effect for control (prior

> to tube amplifiers). Important to note that this effect has nothing to  
> do with the contacts, only the coil, core, armature, and power source.  
>  
> The ability to chatter also depends upon how "stiff" the power source  
> is. If the output impedance is very low, it may be difficult to find a  
> voltage which will sustain this chatter. Assuming that one would want  
> to do this? We've played long & hard with relays in aerospace and  
> encounter this frequently when breadboarding circuits. The newer  
> technicians are always amazed, and this is a great "assignment" to give  
> our engineers as a grail. Most are never heard from again.

Too bad my computer interferes with Home Improvement but I'll take a shot  
at this anyway:

Don, let me add these thoughts. As the armature accelerates it stores  
kinetic energy. It is that energy that "closes" the relay. Prior to  
closure the effective inductive reactance is determined by the energy  
delivered to accelerate the armature, i. e., the \*reflected (mechanical)  
impedance\* (to mix in a transformer metaphor). When the armature reaches  
"home" part of that kinetic energy is consumed by the return spring and the  
spring action of the contacts, the rest is absorbed by the elastic response  
(bounce) of the parts that slam together. As you stated, the minimum  
current occurs at closure and it must be enough to hold the armature home  
against the force returned by the bounce at closure until the current again  
increases per  $T=LR$ , the \*coil time constant\* (coil inductance at closure  
times winding resistance). If the relay is operated from a current source  
than closure is guaranteed as long as the current is above the holding  
value but if operated from a "soft" voltage source the relay can get  
flakey. A low \*effective winding resistance\* (coil resistance plus power  
supply source resistance or impedance) is crucial because higher resistance  
tends to maintain current constant but wastes energy and shortens coil time  
constant (opposite effect as capacitive time constant) and lower resistance  
increases coil time constant and delivers more magnetic flux. When  
voltage is lowered the composite effect is to reach a state where not  
enough energy is delivered to overcome the non-linear  
mechanical/inductive/electrical interactions. Thus you can see why  
engineers would be "never heard from again", the dynamic characteristics of  
a relay (or solenoid) are not obvious to the casual observer watching the  
thing go "click". And I'm probably missing a thing or two also.....

Give your loved ones Gummy Bears.  
Arden Allen KB6NAX Vallejo, CA aallen@sirius.com

-----  
Date: Wed, 4 Feb 1998 21:16:04 -0800 (PST)  
From: Dick Dillman <ddillman@igc.apc.org>

To: ranickel@mwci.net, Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Radio History on the Web  
Message-ID: <2.2.16.19980204211537.394f6062@pop.igc.org>

At 07:20 PM 2/4/98 -0600, Robert Nickels wrote:

>The effort that has been put into sharing radio history via the WWW are  
>truly awesome! I recently discovered a site dedicated to radio's premier  
>inventor - Maj. E. H. Armstrong:

Thanks, Bob. As one who has made the pilgrimage to the Major's original tower in Alpine, NJ (still there, along with the transmitter building) and searched for his home across the river in Yonkers (long gone) I appreciate the information. As you might guess from the above, he's a personal hero of mine.

Regards,

Dick

Dick Dillman  
<ddillman@igc.apc.org>  
WPE2VT W6AWO  
Collector Of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

-----  
Date: Thu, 05 Feb 1998 16:54:09 +1100  
From: Morris Odell <morriso@vifp.monash.edu.au>  
To: r-390@qth.net, boatanchors@sco.theporch.com  
Subject: Handles for 51J4  
Message-ID: <34D95401.6CB2@vifp.monash.edu.au>

Hi all,

Thanks to all those who replied to this (seemingly) simple question.  
Most people seemed to think they would fit.

My question was prompted by 2 facts:

1. My 51J4 has rather flimsy "straight" handles that interfere with the megacycle tuning knob and don't look like the offset ones in the pictures.

2. Fair Radio says they have R390A handles in stock but not 51J/R388

handles.

I've measured them too and they seem to be the same size. The differences may be in the mounting. I'm very tempted to buy a set as I have to get a few other bits from Fair before starting surgery on the RF deck.

73 de Morris VK3DOC

-----  
Date: Wed, 04 Feb 1998 22:13:18 -0800  
From: Ron Hershey <rhershey@europa.com>  
To: skywaves@bw.webex.net  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: R-649 Progress  
Message-ID: <34D9587D.5E883F44@europa.com>

Al Klase wrote:

> Anchorites and Anchorettes,  
>  
>  
>       Next want is some (20) 3/32" bearing balls to repair the dial  
> mechanism. I checked with my local bearing guys to no avail.  
>  
> --  
> Al Klase - N3FRQ  
> skywaves@bw.webex.net  
> Flemington, NJ 08822  
> Web Page: <http://www.webex.net/~skywaves/home.htm>

Have you tried a bicycle shop? They still use a lot of adjustable ball bearings which use various sizes of balls.

-----  
End of BOATANCHORS Digest 1909  
\*\*\*\*\*

>From ???@??? Fri Feb 06 09:11:16 1998  
Message-Id: <199802052326.RAA29712@sco.theporch.com>  
Date: Thu, 5 Feb 1998 17:26:05 CST  
Subject: BOATANCHORS digest 1910

## BOATANCHORS Digest 1910

Topics covered in this issue include:

- 1) Off-topic schematic needed  
by Scott Robinson <spr@earthlink.net>
- 2) Lafayette, La Hamfest  
by w5sum@ms1.nwla.com
- 3) KWS-1 Price?  
by K1HC@aol.com
- 4) ADMIN: Server Problem  
by listown@jackatak.theporch.com (List Admin/Owner Radio Mail Lists)
- 5) BC-946 0.5-1.5 Mcs command set  
by arc5@ix.netcom.com
- 6) Anodizing Aluminum Panels  
by jkh@lexis-nexis.com (John Heck)
- 7) Eldico Twins  
by W4UOC@aol.com
- 8) Re: Anodizing Aluminum Panels  
by Michael Hanz <AAFRadio@erols.com>
- 9) Coil data needed  
by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
- 10) Book review, audio recorders  
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 11) ADMINISTRIVIA: Using The Archives  
by listown@jackatak.theporch.com (Mail List Owner)
- 12) Re: Anodizing Aluminum Panels  
by John R Bookout K7JB <k7jb@ptld.uswest.net>
- 13) Is the SG-44 and TS-510 same?  
by "William L. Fuqua III" <wlfluqu00@pop.uky.edu>
- 14) A Nun's Story  
by Michael Hanz <AAFRadio@erols.com>
- 15) HRS Model HTH-9 Transmitter?????  
by Eugene Rippen <soundval@foothill.net>
- 16) R-1051B Converter Identification  
by w0nbz@juno.com (David M Sundheimer)
- 17) Re: A Nun's Story  
by Michael Hanz <AAFRadio@erols.com>
- 18) Re: KWS-1 Price?  
by Sandy Meltzer <sandy@sandy.com>
- 19) Misc FS & VERY Misc Wanted  
by don merz <71333.144@compuserve.com>
- 20) Tube Information  
by "Andy Howard, WA4KCY" <sweetbay@compuserve.com>
- 21) WTB Drake R4C or R4B  
by "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
- 22) PRC-61 Help Needed  
by Paul Bernhardt <bern@ppdu.nrl.navy.mil>

- 23) minimalist reflex?  
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
- 24) Sylvania 6CM5/EL36  
by sinned@vnet.IBM.COM
- 25)  
by JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 26) Dentron GLA-1000 + Antenna tuner  
by sinned@vnet.IBM.COM
- 27) URM 25F Signal Generator For Sale  
by "Andy Howard, WA4KCY" <sweetbay@compuserve.com>

-----  
Date: Wed, 4 Feb 1998 23:20:27 -0800  
From: Scott Robinson <spr@earthlink.net>  
To: boatanchors@theporch.com  
Subject: Off-topic schematic needed  
Message-ID: <v03007802b0ff184d2cb2@[153.34.139.158]>

Folks,

Sorry to use BW here, but I need a schematic etc. for a Tandberg 3300X tape recorder. Yes, I know...this 'n is sand state, but it's open reel. It's not in Sams. Does anyone know where I can find said schematic? Reasonable costs paid. I've got one with mysterious "won't record" symptoms.

All help gratefully received!

Regards,

Scott Robinson  
spr@earthlink.net

Junque is GOOD for you!

-----  
Date: Thu, 5 Feb 1998 05:08:21 +0000  
From: w5sum@ms1.nwla.com  
To: boatanchors@theporch.com  
Subject: Lafayette, La Hamfest  
Message-ID: <199802051141.FAA19685@ms1.nwla.com>

does anyone know what weekend the Lafayette Hamfest is, and who I can

contact about getting a table? Got LOTS of BA stuff to cart down there!!

Ronnie  
W5SUM - Ronnie Hull  
PO Box 8941  
Shreveport, La 71148

-----  
Date: Thu, 5 Feb 1998 06:47:02 EST  
From: K1HC@aol.com  
To: boatanchors@theporch.com  
Subject: KWS-1 Price?  
Message-ID: <6473925b.34d9a6b8@aol.com>

A local ham has offered to sell me a KWS-1, later model with the 4X250B tubes. He says it is not working. I have not seen it yet, but he said it has been stored for about 10 years. He has been inactive, and neither he nor I know a fair price. Anyone have any comment on a price? Thanks!

Dick, K1HC

-----  
Date: Thu, 5 Feb 1998 6:57:11 -0600 (CST)  
From: listown@jackatak.theporch.com (List Admin/Owner Radio Mail Lists)  
To: renewal@jackatak.theporch.com  
Subject: ADMIN: Server Problem  
Message-ID: <199802051257.GAA29431@jackatak.theporch.com>

Hi Gang-

Just a quick note...

I have been fighting with a particularly nasty problem that kept crashing theporch.com, and would only allow it to stay up for a few hours...

The problem started sometime Monday, and since the server is at another location, and Phil is not available to help me work a solution, it's been rough... the server has been down and reset five separate times, and now seems to be back up...

I will be keeping an eye on things, but I am hopeful...

I'll have to take the server down again later this morning for a hardware swap, but here's how you can help:

keep your fingers crossed  
keep your posts short and to the point  
edit out the extra included text  
try not to clog the system with "Is the system up?" posts  
Be patient...  
Write me direct if you have a problem...

Let me know how I can help

--

73

Jack, W4KH/Mobile - - - Mailing List Archiver/Owner - - -  
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"

-----  
Date: Thu, 5 Feb 1998 07:33:39 -0600 (CST)  
From: arc5@ix.netcom.com  
To: boatanchors@sco.theporch.com  
Subject: BC-946 0.5-1.5 Mcs command set  
Message-ID: <1998257325356334@>

(copied to list for general information)

>Asked robinson@srsuna.shlrc.mq.edu.au (Ray Robinson)  
>  
>Was there a "BLACK" BC-946 made?  
>I have a natural aluminium BC-946,  
>and a black ARC-5 R24,  
>and was curious as I have never heard of one.

Ray:

I have a black-wrinkle BC-946 made by Colonial  
(which later became Sylvania).  
This one may have been factory-converted from a BC-453.

Besides the obvious IF, RF and BFO coils, there are several  
component differences between a 453 and a 946.  
Ray Mote in Oxnard, Ca worked very hard to compile a list of  
Command Set receiver component differences, and this has  
been an invaluable tool for me.  
I always check these to make sure I've got a "real" 946  
and not a re-coiled 453. The great majority of 946s  
were destroyed by tinkerers, so an original BC-946  
in unmodified condition is very prized.

In my black unit, these components look like they may



have been changed in a very professional manner.  
The contacts have also been laquered, and that laquer is  
the proper age and type. These changes are very likely  
factory-original. This unit was missing the adaptor  
drawer when I got it. I wonder if they re-painted  
an FT-310 power adaptor for this rig or just used  
the usual aluminium finish.

I would guess that the production line needed to complete  
a quota one day and this was the quickest way to do it.  
In any event, black-wrinkle BC-946 receivers are very rare.

73 DE Dave Stinson AB5S  
arc5@ix.netcom.com

-----  
Date: Thu, 5 Feb 1998 09:18:05 -0500  
From: jkh@lexis-nexis.com (John Heck)  
To: boatanchors@theporch.com  
Subject: Anodizing Aluminum Panels  
Message-ID: <199802051418.JAA24519@psc7128.lexis-nexis.com>

Folks,  
One of the first useful benefit from purchasing the 1950-1959 QSTView CD's was  
finding an article in  
the May, 1950 issue describing how to anodize aluminum chassis panels. It looks  
fairly easy and relatively  
safe, using good ventilation, rubber gauntlets and a face shield. I am going to  
try this and will report  
my results. Any feedback would be welcome, and please post to the group. It goes  
roughly like this:

- 1) etch panel in lye as per usual procedure. Rinse \*thoroughly\*
- 2) degrease panel using any technique \*except\* carbon tet.
- 3) obtain a coating of aluminum oxide on the aluminum surface by an electrolytic  
method. Uses medium  
strength sulphuric acid(battery acid solution diluted 8 times by volume) as the  
electrolyte, and an  
aluminum cathode(-), and your piece as the anode(+). Using any source of DC(no  
filtering required),  
at about 12 volts and a current flow of about 20 to 40 amps/square foot(less  
just takes longer, that's  
all) run the process until a coating of aluminum oxide is deposited that will  
not conduct(infinite  
resistance using ohmmeter) over its entire surface. No metallic part can be in

the electrolyte except

aluminum during the deposition. When mixing the battery acid with the water be sure to remember that

we \*never, ever, never\* pour water into acid. \*\*\*Always\*\*\* pour the acid into the water. This allows the

solution to cool, as it generates a lot of heat, quickly. Pouring water into acid can generate steam,

which cause dangerous splatters!

4) steam the panel in any simple steam bath using a terry towel cover and boiling water for a time I don't

remember at the moment.

5) wash and rinse \*well\* and dry in a warm oven.

6) Dye \*any\* color using \*any\* water or alcohol soluble dye(at double recommend strength). Rite or Tintex

fabric dyes work well, or water soluble wood dyes(aniline).

7) produces a durable and attractive surface( well, depending on the color you use attractive is relative).

These are most of the details necessary to give you a picture of whats going on here.

Regards,

John Heck, KC8ETS

1009 Donson Drive

Dayton, Ohio 45429

(937)865-7036(work)

jkh@lexis-nexis.com

-----  
Date: Thu, 5 Feb 1998 10:34:21 EST

From: W4UOC@aol.com

To: boatanchors@theporch.com

Subject: Eldico Twins

Message-ID: <a6bd05f5.34d9dc00@aol.com>

Thanks to all who provided insight on the Eldico Twins. The problem I was experiencing with a problem getting it to work on separates not transceive was due to the transmitter vfo/pto. osc. tube. Not it works fine!

One interesting comment was that the Eldico line was said to be a backup for a government source if something happened to Collins manufacturing ability and that they were carbon copies of each other as far as the electronics.

It also appears that the Airforce MARS program were the primary users of these rigs. I would be interested in any additional information pertaining to the Eldico Twins, etc.

Tom Koch - W4UOC  
Atlanta, GA.

-----  
Date: Thu, 05 Feb 1998 11:09:18 -0800  
From: Michael Hanz <AAFRadio@erols.com>  
To: boatanchors@sco.theporch.com, jkh@lexis-nexis.com  
Subject: Re: Anodizing Aluminum Panels  
Message-ID: <34DA0E5E.7A99@erols.com>

John Heck wrote:

> One of the first useful benefit from purchasing the 1950-1959 QSTView  
> CD's was finding an article in  
> the May, 1950 issue describing how to anodize aluminum chassis panels.

Having done this a time or two thousand in a previous existance, I have one caveat for those who have never tried this. Your satisfaction with the finished product will be caused, not so much by your technique or lack of same, but by the type of aluminum you are anodizing. Its temper, consistency of grain, alloy, and any bending to make flanges, etc. will all affect the finished appearance - just

try a small piece before you go whole hog so you don't end up with a big disappointment.

Been there, done that, got the holey T shirt(s) to prove it... Still, it IS fun to try it and be able to say you've done it, I suppose.

BTW, I use paint now. :-)

-- 73,  
Mike Hanz KC4TOS  
Herndon, VA  
AAFRadio@erols.com

-----  
Date: Thu, 05 Feb 1998 17:41:05 +0100  
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>  
To: "Boatanchors List" <boatanchors@sco.theporch.com>  
Subject: Coil data needed  
Message-ID: <3.0.1.32.19980205174105.006b4bd0@pop.ctv.es>

Hi gang!

Some time ago I bought from the Net some (about 100) adjustable coils, along with other BA parts. They are NOS and have a reference written on

them. There are some different models. The coils are about 1.5" tall, 1/3" diameter, and have an adjustable ferrite core. There are two different mounting types: panel mounting (without pins, but with a metal piece to fix them in a hole) and other with pins (from 3 to 5, depending on models, as some have double winding). Some have a capacitor in parallel.

Here you have some of the references and mount types:

Ref.	Type	Windings
40-577	pin	1
40-578	pin	2
40-964	panel	1
40-966	panel	1
40-1027	pin	2
40-1028	pin	2

Some of them have a date stamp of 1966.

I wonder if you know its use/characteristics and if are of any value to build something.

Thanks!.

Best regards.

JOSE

-----  
73 EB5AGV / EC5AAU  
JOSE V. GAVILA  
Ausias March 46, 15  
46910 Benetusser - VALENCIA  
SPAIN

<http://www.geocities.com/SiliconValley/6992/>  
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

-----  
Date: 05 Feb 1998 11:01:36 -0600  
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>  
To: boatanchors@sco.theporch.com  
Subject: Book review, audio recorders  
Message-ID: <1998Feb05.110140-0600@spike.vuse.vanderbilt.edu>

I have written a brief review of Van Praag's book on Audio Recorders. Since they ain't BA's in the strictest sense (although anyone who has toted an Ampex 400 will argue with that), I won't post it, but if you are interested give me a holler.

A. B. Bonds

-----  
Date: Thu, 5 Feb 98 11:15:01 CST  
From: listown@jackatak.theporch.com (Mail List Owner)  
To: boatanchors@sco.theporch.com  
Subject: ADMINISTRIVIA: Using The Archives  
Message-ID: <199802051715.LAA01163@jackatak.theporch.com>

Gang-

This periodic post is designed to help everyone gain more value from their boatanchors subscription.

SAVE THIS FILE FOR FUTURE REFERENCE!!!!!!

Often I receive an email request, or I read on the list, of someone who is aware there is an archive available with some special files with special information that is of a more permanent nature than a post to the list, but who is unaware of how to retrieve these gems.

In the archives, there are cross-reference tables for Tubes, Military Equipment Nomenclature, suggestions for restorations and modifications to our beloved fire bottle rigs, and some wonderful stories of real adventures and the people involved.

These files may be accessed by email... quickly and easily.

Step One:

send an email (leave the subject blank, or, if your mailer requires a subject, type a single character, like "a" in the subject box) to:

listproc@sco.theporch.com

Step Two:

in the body type:  
index boatanchors

Step Three:

after checking out the index for files of interest, and finding the one or more you want to have sent to you, send another email to:

listproc@sco.theporch.com

and, in the body, type:

get boatanchors file.name

where you substitute the name of the file from the index  
for "file.name"

This should get you off to a good start. If you encounter any problems,  
please let me know at the address below.

--

73

Jack, W4KH/Mobile - - - BoatAnchor Mailing List Archiver/Owner - - -  
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"

-----

Date: Thu, 05 Feb 1998 09:22:53 -0800  
From: John R Bookout K7JB <k7jb@ptld.uswest.net>  
To: AAFRadio@erols.com  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Anodizing Aluminum Panels  
Message-ID: <34D9F56D.36E7@ptld.uswest.net>

Michael Hanz wrote:

>

> John Heck wrote:

> > One of the first useful benefit from purchasing the 1950-1959 QSTView

> > CD's was finding an article in

> > the May, 1950 issue describing how to anodize aluminum chassis panels.

>

> Having done this a time or two thousand in a previous existance, I have one

> caveat for those who have never tried this. Your satisfaction with the finished

> product will be caused, not so much by your technique or lack of same, but by

> the type of aluminum you are anodizing. Its temper, consistency of grain,  
alloy,

> and any bending to make flanges, etc. will all affect the finished appearance -  
just

> try a small piece before you go whole hog so you don't end up with a big  
disappointment.

> Been there, done that, got the holey T shirt(s) to prove it... Still, it IS fun

> to try it and be able to say you've done it, I suppose.

>

> BTW, I use paint now. :-)

>

> -- 73,

> Mike Hanz KC4TOS

> Herndon, VA

> AAFRadio@erols.com

BA's:

As many may know, Tektronix was famous for etched AL sub panels, baffles and shields along with anodizing front panels.

In the engineering model shop, there were 4 large tanks for etching proto type chassis with Tank #1 NaOH Sodium Hydroxide, #2 Hot Water spray rinse. #3 HNO<sub>3</sub> Nitric Acid and #4 Hot Water bath. The AL to be etched was often placed on a belt sander to produce a parallel grain pattern. I have also used a sand blast cabinet to remove light scratches and layout marks prior to etching.

One would start by using a solvent to remove all surface manufacturing and hand oils. Then rinse in #2. For those who desired a controlled etch, the strength of #1 and amount of time in NaOH must be known. One can use a micrometer to test the effectiveness of the etch. A simple dark room photo timer was used with its internal bell to let you know when the etch was complete. Often 10-15 minutes was enough. For my projects, I just used my eye ball! Next the NaOH was washed off in #2. The etched panel was allowed to stand in the HNO<sub>3</sub> for about 2 minutes so that most of the (Base) NaOH was neutralized by the (Acid) HNO<sub>3</sub>. Then back into #2 to remove the remaining HNO<sub>3</sub>. The last tank #4 was used to heat up the AL so it would help evaporate the excess water. A compressed air supply was also near by to help with the evaporation. The air blast is very helpful in pushing residue to the edge of the AL, thus eliminating streaking on the surface.

The last step was a lacquer spray booth to protect the AL from receiving minor scratches during assembly. All panels received the silk screening of part numbers and useful nomenclature like Danger High Voltage etc.

It should be noted that AL in NaOH yields H<sub>2</sub> hydrogen as a gas. NEVER HAVE AN OPEN FLAME OR SMOKE around this environment! When I was a teenager, I use to experiment with a small amounts of NaOH (Lye), water and AL scraps in a test tube. It was very explosive near a flame!

Hope someone finds something of value here.

Best 73's John K7JB

-----  
Date: Thu, 5 Feb 1998 13:05:08 -0500 (EST)  
From: "William L. Fuqua III" <wlfuqu00@pop.uky.edu>  
To: boatanchors@theporch.com  
Subject: Is the SG-44 and TS-510 same?  
Message-ID: <199802051805.NAA23486@pop.uky.edu>

Someone was asking me for a TS-510/HP-608 manual.  
Would a SG-44 manual do? I seem to have several of them.  
Just have not found the TS-510 manual yet.

73  
Bill wa4lav

William L. Fuqua III P.E. E-mail WLFUQU00@POP.UKY.EDU Phone (606) 257-4155  
Department of Physics and Astronomy CP-177 Chem. Phys. Bldg.  
University of Kentucky , Lexington, Ky 40506-0055

-----  
Date: Thu, 05 Feb 1998 13:06:12 -0800  
From: Michael Hanz <AAFRadio@erols.com>  
To: pauboc@smtpplink.pulse.com, rmote@rain.org, redding@public.bta.net.cn,  
azcot@phnx.uswest.net, HLDGEEZE@aol.com, leuckr@worldnet.att.net,  
Subject: A Nun's Story  
Message-ID: <34DA29C4.A16@erols.com>

A nun walks into a liquor store and says, "Give me a pint of brandy. "The guy says, "Sister, I've never sold alcohol to a nun." She says, "It's for the Mother superior, she's constipated." So he sells it to her. Later that night, he walks out, and there's the nun on the stoop, with the empty bottle, drunk as a skunk, singing and laughing. He says, "Sister, for shame! You told me the bottle was for the Mother Superior's constipation." The nun says, "It is...she's constipated, and when she sees me, she's gonna shit!"

-----  
Date: Thu, 05 Feb 1998 11:47:48 -0800



From: Eugene Rippen <soundval@foothill.net>  
To: boatanchors@theporch.com  
Subject: HRS Model HTH-9 Transmitter?????  
Message-ID: <34DA1764.E83@foothill.net>

Among my treasures I have this transmitter.  
It is an HRS Model HTH-9.

Does any one have any paper on this?  
Sure would like to know more about it.

Gene

-----  
Date: Thu, 5 Feb 1998 12:55:07 -0600  
From: w0nbz@juno.com (David M Sundheimer)  
To: boatanchors@theporch.com, baswaplist@foothill.net, forsale-swap@qth.net,  
r-390@qth.net  
Subject: R-1051B Converter Identification  
Message-ID: <19980205.125529.15822.4.w0nbz@juno.com>

Thanks to Tom Bryan, the following converter has been identified as a SP-263, built by Elmer in Italy. I've listed it here as general information as requested by several respondents. It is in Janes Military Communications, 1983 / 4 and a picture of it is under the SR-1 system. Now if anyone knows where I can find a manual.....

I've obtained a R-1051B with a matching 14 Kc.--2 Mcs. converter with a missing nameplate.

The converter has the following front controls : HF-LF switch, 0 or 40 Db switch, a 7 position frequency switch, on -off switch, fuse, tuning knob, and a slide rule dial marked in "Mc/s" and "mt'.

The dial has the high frequency on the left end. A note on the front says: " In the LF Operation Tune R-1051/URR-- MM Receiver To Receive Frequency + 5 Mcs."

The unit works and appears to have some European parts.

Can anyone identify this unit by it's military name ? Anyone know where I can I can manual ?

Thanks for your help,  
73's

Dave Sundheimer W0NBZ w0nbz@juno.com Burnsville (near Minneapolis)  
Minnesota

-----  
You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Thu, 05 Feb 1998 14:01:01 -0800  
From: Michael Hanz <AAFRadio@erols.com>  
To: Jim Lockwood <jmlckwd@mindspring.com>  
Cc: boatanchors@sco.theporch.com  
Subject: Re: A Nun's Story  
Message-ID: <34DA369D.134A@erols.com>

Jim Lockwood wrote:

> Your posting is inappropriate for the boatanchors mailing list. I hope and  
> want to assume that you made the posting by mistake and that you will be  
> more careful in the future.  
> If you posted this to the list, knowing full well that it was off topic,  
> then you may not yet believe just how seriously the rules about remaining  
> "on topic" are enforced. Willful violations of the list rules typically  
> result in a temporary revocation of posting privileges. Repeated willful  
> violations of the list rules tend to result in cancellation of your  
> subscription to the list.  
> But, as I indicated previously, I hope this was an accidental posting and  
> that you'll take the proper steps to ensure that it doesn't get repeated.

My sincere apologies to the list for the accidental addressing. It will not  
happen again.

-- 73,  
Mike Hanz KC4TOS  
Herndon, VA  
AAFRadio@erols.com

-----  
Date: Thu, 05 Feb 1998 11:07:09 -0800  
From: Sandy Meltzer <sandy@sandy.com>  
To: K1HC@aol.com, Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: KWS-1 Price?  
Message-ID: <199802051902.LAA06230@cactusnet.com>

Hi Dick,

At 06:47 AM 2/5/98 -0500, K1HC@aol.com wrote:

>A local ham has offered to sell me a KWS-1, later model with the 4X250B  
tubes.

>He says it is not working. I have not seen it yet, but he said it has been  
>stored for about 10 years. He has been inactive, and neither he nor I know a  
>fair price. Anyone have any comment on a price? Thanks!

>

>Dick, K1HC

It's worth about \$3500 in excellent condition to a Collins collector.  
Mostly a question of supply and demand. Right now, they're in high demand.  
Good luck.

73 --sandy  
Kw6KW

-----  
Date: Thu, 5 Feb 1998 14:58:57 -0500  
From: don merz <71333.144@compuserve.com>  
To: boatanchors@theporch.com  
Subject: Misc FS & VERY Misc Wanted  
Message-ID: <199802051501\_MC2-3211-8ABB@compuserve.com>

Vintage Radio Gear For Sale and Wanted

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.  
412-234-8819 (weekdays, EST or leave a message anytime).  
71333.144@compuserve.com

FOR SALE

HP 5245L Frequency Counter. Workbench counter good to 50mhz as-is, higher  
with plug-ins. Includes the interval plug-in which works but is basically  
useless. Also includes the 512mhz converter plug-in which I have not  
tested and which has a broken knob. Working as designed and looks good  
too. With Ed Matsuda manual photocopy. \$69

HP 5246L original user manual, excellent: \$14 PPD

Simpson 377 DC Voltmeter. Small, handheld, up to 1000 volts in 7 or 8  
ranges. 1000 ohms/volt. Working. No cracks or defects but needs  
cleaning. \$17

MFJ-207 Noise Bridge, with manual. Looks and works fine. With original  
manual. \$10

Knight RF Impedance Z-Bridge. Looks and works fine. With original  
manual. \$12

Icom IC-260A 2-meter all-mode transceiver. 10watts out. Nice radio but  
too old for modern conveniences. Not enough memories, no tone pad,  
etc. Clean and working well. With original manual, mobile bracket, mic  
and fused 12V cable. Mobile bracket is missing rubber insert but this  
could be easily replaced. \$200

2-meter antenna. This is a commercial antenna but the decal identifying

the maker is mostly scraped off and unreadable. This stands 3 feet tall. The top section is a simple 2M groundplane. But then it has a 2 foot "mast" and at the bottom there is another set of groundplane vanes. Accepts standard PL-259 connector. Very cute. Good performer with decent characteristics across the entire 2M band. Made of heavy aluminum and all the pieces screw together in 5 minutes. Nice. \$15  
Heathkit AM-1 Antenna Impedance Meter. Looks and works good. With manual copy. \$15  
Small, plastic handheld mic. Looks good with heath Sixer or Twoer but is not original. Good shape. \$5  
Microphone catalogs (all like new): 1962 Electrovoice: \$11 PPD, 1964 Shure: \$11 PPD, Undated (early 1960's) Turner: \$8 PPD.  
Military Spares Box BX-19A. Holds spares for the BC-312. Used with SCR-193, SCR-209, SCR-210 and maybe others. This has sockets for 9 octal tubes, 4 bayonet-base lamps and 2 fuses. It is black wrinkle finish with a handle. All-steel construction. Really rare accessory. \$23  
VHF Horizons magazine, V1#1, July, 1962. \$7

#### WANTED

VHF Amateur magazine, any issues before 9/61.  
VHF Horizons magazine, any issues from 1962-1965.  
Swan TV-2C manual. Must be for the C model which used FETs in the front end in place of the tubes used in the earlier A and B models.  
4PDT toggle switches. I need 2 of these to replace 2 that were removed from a C-1306 military control box. The 2 missing ones mounted flush against the panel using 2 screws--above and beneath the toggle--to hold the switch to the panel.  
RCA 160-B Oscilloscope manual

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.  
412-234-8819 (weekdays, EST or leave a message anytime).  
71333.144@compuserve.com

-----  
Date: Thu, 5 Feb 1998 16:08:55 -0500  
From: "Andy Howard, WA4KCY" <sweetbay@compuserve.com>  
To: "LIST, POST BOATANCHORS" <BOATANCHORS@theporch.com>, "LIST, QTH NET" <vintage-radio@qth.net>  
Subject: Tube Information  
Message-ID: <199802051609\_MC2-3216-5F5C@compuserve.com>

Hello to all,

Anyone have the specs on an 8802 triode. Picked up an amp that has a pair= of these. Is this a military designation for the 3-500Z?

Thanks and 73,

~~~~~  
Andrew E. (Andy) Howard, Sr., WA4KCY  
105 Sweet Bay Lane  
Carrollton, Georgia 30116-8519  
Telephone 770-832-0202  
AMI #9 - Southeastern Division Director  
Web Page URL -  
<http://ourworld.compuserve.com/homepages/sweetbay>  
<><

~~~~~ =  
Keeper of the Hallicrafters SX-88 Owners List

-----  
Date: Thu, 5 Feb 1998 15:23:57 -0600  
From: "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>  
To: "'Boatanchors@theporch'" <boatanchors@sco.theporch.com>  
Subject: WTB Drake R4C or R4B  
Message-ID: <21B46CBD022AD1118F0500805F15A068450937@STPMSX05.stp.guidant.com>

Greetings:

Want to buy Drake R4C or R4B. Prefer good operating and physical condition. Would like filters in R4C. Will consider 4B or 4C twins.

Thanks,

Scott WA9WFA Saint Paul Minn

-----  
Date: Thu, 5 Feb 1998 16:26:00 -0500 (EST)  
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>  
To: boatanchors <boatanchors@theporch.com>  
Subject: PRC-61 Help Needed  
Message-ID: <Pine.A32.3.91.980205162515.39841C-100000@ppdu.nrl.navy.mil>

Gang,

Does anyone have informatin, manuals or schematic for the PRC-61?  
Thanks, Paul Bernhardt

Work:P.A. Bernhardt  
Code 6794

Home: Paul Bernhardt, KF4FOR  
5704 Ridge View Dr.

Naval Research Laboratory  
Washington, DC 20375  
Tel: 202-767-0196  
FAX: 202-767-0631

Alexandria, VA 22310  
703-960-9656

-----  
Date: Thr, 05 Feb 1998 22:24:27 +2400  
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>  
To: boatanchors <boatanchors@theporch.com>  
Cc: "j.m.osborne" <j.m.osborne@btinternet.com>  
Subject: minimalist reflex?  
Message-ID: <199802052224.WAA07247@punt1.hw.ac.uk>

Found this 1-valve reflex circuit which is said to be sensitive and selective from LW well into SW; theory escapes me though and I'd welcome comments before spending anything finding the bits not already to hand.

Valve is a DAF91 diode-pentode. Tuning coil is a variometer; 100 turns on 1.5 inch waste-pipe in which swings another 100 turns (in series) on 1 inch overflow pipe. Coils are in series so I can see it has a good range of inductance. In parallel is 350 pF VC so the tuning range doesn't surprise me.

One end of this LC goes direct to the pentode grid; the other end goes to slider of a 1 megohm pot. One end of the pot is earthed; slider is decoupled with 1000 p to earth. Top of pot goes to the diode anode.

Also to the diode anode goes 50 p to the pentode anode.

Pentode load is primary of "a small microphone transformer", between anode and HT+ as you would expect. Secondary (low Z side) goes to speaker or 'phones, 4 to 64 ohm.

Pentode screen is as usual: decoupled R back to HT+.

Aerial is a long wire through 2 pF to pentode grid.

I can see that the selected RF will appear at the anode much amplified, and is applied to the diode anode through the 50 pF. But I'm not clear how the AF appears across the 1 meg pot, ready to go round and be amplified again.

(An alternative question is, "Do we need a separate diode at all?")

Still, it looks worth a try.

I'd appreciate any theory as to how the detector (demodulator) works.  
Could it be like a diode pump?

Certainly doesn't look as there is much to go wrong.

I'd go further and say "shouldn't it work with almost ANY RF amplifier  
valve and ANY diode detector?"

It looks so simple that I'm convinced I must be overlooking something  
vital.

(Add enough reaction and a carbon mic and I'd think you would have a Tx  
as well...)

Thanks in anticipation of any helpful comments,

Bill

GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Omnes immemorem benefici oderunt

Net-Tamer V 1.10 - Registered

-----  
Date: Thu, 5 Feb 98 16:51:56 CST  
From: sinned@vnet.IBM.COM  
To: boatanchors@sco.theporch.com  
Subject: Sylvania 6CM5/EL36  
Message-ID: <199802052252.QAA28754@sco.theporch.com>

I can't find any information about this tube. Looks like a 2E26. Does  
anyone have specs on it?

Thanks,  
Dennis W5FRS  
sinned@vnet.ibm.com

-----  
Date: Thu, 5 Feb 1998 17:54:27 -0500 (EST)  
From: JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)  
To: boatanchors@theporch.com  
Message-ID: <9802051754.aa05746@pcusa01.ecunet.org>

The Halli SX-115 has a parallel LC (C = 620 pF) trap in series with its

antenna lead in. Also a series LC ( $C = 75 \text{ pF}$ ) in shunt with the antenna lead. It's located prior to an  $18 \text{ pF}$  cap that couples the antenna line to the 1st RF xfmr primary. They're both tuned to  $6.4 \text{ MHz}$  to keep stuff out of its  $6$  to  $6.5 \text{ MHz}$  IF strip.

The SX-117 also uses both a parallel LC trap ( $C = 620 \text{ pF}$ ) in series with the antenna lead in and a series LC trap ( $C = 75 \text{ pF}$ ) as a shunt across the primary of the 1st RF xfmr--there is no series ant. coupling cap. I have no info on exactly what freq. they're tuned to but it's gotta be  $5$  to  $6.5 \text{ MHz}$ . It's got a tunable IF, I believe  $5 - 6.5 \text{ MHz}$ .

In all cases above the inductor is adjustable. I have only schematics so no exact parts data ( $Q$  or series  $R$  of inductor). You can figure  $L$  using the formula for a resonant LC ct. (My handbooks are still buried after moving.)

Such a setup should not care very much about antenna impedance. A fancier filter might not work as designed unless the in & out  $Z$ 's were right.

None of the Halli's (right up to the last one, the SX-122) using the  $1650 \text{ kHz}$  1st IF have any kind of trap. The IF freq was picked to avoid any problems in the mid-1950's when  $1650$  was a quiet place!! I'd look to see if the RF amp tube is not flat or gassy--sometimes they then cross-modulate more easily.

IF rejection is not listed in the SX-100, 101, or 101A specs. Sometimes IF energy sneaks in some weird ways thru a front end into the IF strip. I think that the pair of traps like above, tuned to  $1650$ , ought to help. A tuned antenna will help. An antenna tuner that has some selectivity (some/most don't) will help.

I think that at the higher the 1st IF freq, the more easily energy can sneak in, capacitive coupling is easier then.

-John Sehring (written on Thu, Feb 5, 1998 at Custer, SD) UCC WB2EQG

-----

Date: Thu, 5 Feb 98 17:01:40 CST  
From: sinned@vnet.IBM.COM  
To: boatanchors@sco.theporch.com  
Subject: Dentron GLA-1000 + Antenna tuner  
Message-ID: <199802052301.RAA29031@sco.theporch.com>

I have these items from an estate to sell. What would this combo be selling for at Hamfests? The amp & tuner work FB, and there's 8 extra tubes as well, but they might have been used. I'm selling this for the  $\text{XYL}$  of SK W5MWA, so need some idea of market value.



Thanks,  
Dennis W5FRS  
sinned@vnet.ibm.com

-----  
Date: Thu, 5 Feb 1998 18:23:12 -0500  
From: "Andy Howard, WA4KCY" <sweetbay@compuserve.com>  
To: "LIST, BA QTH NET" <boatanchors@qth.net>,  
"LIST, POST BOATANCHORS" <BOATANCHORS@theporch.com>,  
Subject: URM 25F Signal Generator For Sale  
Message-ID: <199802051823\_MC2-3224-613F@compuserve.com>

Hello to all,

I have a military URM 25F signal generator that is surplus to my needs. The  
signal generator is gray and the lid is green. It does not have all the  
attenuators, etc. that were supplied by the military. It does have an RF  
cable to supply the signal to whatever is being tested. The unit works ve-  
ry  
well and I have been using it for several years. Fair Radio sold them for=  
\$200 a while back. I will sell this to members of the list for \$90 plus  
shipping. If you need a signal generator this is a good one. E-mail if yo=  
u  
have questions.

Thanks and 73,

~~~~~  
Andrew E. (Andy) Howard, Sr., WA4KCY  
105 Sweet Bay Lane  
Carrollton, Georgia 30116-8519  
Telephone 770-832-0202  
AMI #9 - Southeastern Division Director  
Web Page URL -  
<http://ourworld.compuserve.com/homepages/sweetbay>

<><

~~~~~ =  
Keeper of the Hallicrafters SX-88 Owners List  
-----

End of BOATANCHORS Digest 1910  
\*\*\*\*\*